ABSTRACT

Frame quality information is transmitted and updated within a core network (CN) and a RAN downlink to UE. In the CN, CRC checks are done and the FQC field is set according to the results of the CRC check and the received FQC field's value, and transferred to the next node in the communication path. A server, or servers, instruct(s) MGWs and RNCs within the communications path to apply CRC checks and generate the FQC field according to the received FQC field and the applied CRC check. The Iu framing protocol is used to transfer the FQC between the CN and RNC. A radio protocol, such as RRC protocol, is used between the RNC and the mobile to transport the FQC field in the downlink to the UE. Within the CN, the FQC field is transported over the Nb interface